Joseph Romani

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https://github.com/attackgnome

WORK EXPERIENCE

Halliburton

Technical Advisor, PE Digital Group   *04/2021 – Present*

- Developed workflow for statistical benchmarking to understand flagship product performance relative to baseline using trial with 4 wells and over 200 stages. Presented results to senior internal management
- Analyzed data, wrote software, and gave technical expertise to automate control system for hydraulic fracturing as part of interdisciplinary team of ten in hydraulic fracturing digital group
- Created a dashboard to collect thousands of data labels from subject matter experts, analyzed labels to create rules for a control system, coded the rules for use in a system to automatically mitigate screenouts

Senior Consultant, North America Land Consulting   *01/2020 –04/2021*

- Investigated the impact of optimizing completions using machine learning and data analytics for asset value for 3 separate acquisitions in conventional and unconventional resources

Principal Engineer, Denver Tech Team   *08/2015 –01/2020*

- Won bids on contracts in excess of hundred million in annual revenue with Williston Basin clients by collaborating with sales, operations, and technical teams and leveraging data analysis to demonstrate value to clients
- Vetted vendor as part of review team to replace internal product reducing costs by over 10 million dollars
- Investigated the effects of design changes on production and diagnostic data with statistics and machine learning and leveraged analysis to develop completion that increased productivity by 25% vs. baseline
- Devised refrac stimulation programs for over 20 wells and utilized analysis of historical performance to identify key drivers of performance to lower the cost of the service by over 500k dollars per well

Field Engineer   *07/2012– 08/2015*

- Mentored and train over 20 engineering staff in two field camps with emphasis on pinpoint and foam operations
- Ensured adherence of delivered services to customer specifications over thousands of stages in four basins
- Devised stimulation treatment and procedure for one horizontal well using public and internal data

Total E&P

Geophysicist   *07/2008 – 12/2009*

- Built models for borehole seismic calibration to improve reservoir characterization and reserve reporting
- Performed quality control and interpretations on data collected from the Niger and Congo deltas

EDUCATION

Colorado School of Mines
Master of Science, Mineral and Energy Economics, Golden, CO   *01/2010 – 05/2012*

IFP School
Master of Science, Petroleum Geosciences – Geophysics Major, Rueil-Malmaison, France   *09/2007 – 12/2009*

Colorado School of Mines
Bachelor of Science, Geophysics and Geophysical Engineering, Golden CO   *08/2003 – 05/2007*

SKILLS

Technical: Data Science,Engineering, Machine Learning, Statistics, Deep Learning, Data Visualization
Programming Languages & Applications: R, python, SQL, Spark, Rstudio, Azure, Spotfire, PowerBI, Microsoft Suite

LICENSES AND CERTIFICATIONS

- Professional Engineer – Colorado and Texas (Petroleum)
- Microsoft Certified: Azure Data Scientist Associate
- IBM Data Science Professional Certificate by IBM
- Deep Learning: 5-course specialization by deeplearning.ai